

SEC. CL.		ORIGIN		CONTROL NO.	
S/N		Chief, CIA/PID(NPCC)		CGS-2748-63	
DATE	DOC.	DATE REC'D	DATE OUT	SUSPENSE DATE	CROSS REFERENCE OR POINT OF FILING
27 Nov.		12/4/63			
TO					ROUTING
FROM					DATE SENT
SUBJ: 1. Tsi-Nan Arsenal Complex, China					
2. Canton Arsenal Complex					
3. Harbin Arsenal Complex					
4. Chungking (Ch'ung-Ch'ing) Arsenal Complex Study					
5. Sian Arsenal/Arsenals Chi-chi-ha-erh and Fu-la-erh-chi, China					
COURIER NO.		ANSWERED		NO REPLY	
				2	

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Declass Review by NGA.

IB - 342/63
29 November 1963
Copy 3 of 8

Retain or Destroy

MEMORANDUM FOR: Chief, Manufacturing and Services Division, OMR

ATTENTION :

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID (DPIC)

SUBJECT : Arsenal Chi-chi-ha-erh and Fu-la-erh-chi, China

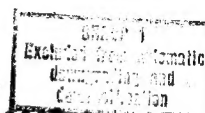
REFERENCES : (1) OMR Requirement No. C-RR3-80,522/63 (Revised)
(2) CIA/PID Project No. C 1412-63

1. This memorandum is in response to the referenced requirement which asks for description of arsenals in Chi-chi-ha-erh and Fu-la-erh-chi, China, including the production activity and expansion since 1960. Memorandum PID/IB - 306/63 dated 4 November 1963 provided such information on the arsenals at Chi-chi-ha-erh.

2. Analysis of photo coverage from [redacted] of Fu-la-erh-chi revealed a industrial area containing three large industries:
A. Fu-la-erh-chi Heat and Power Plant TETS [redacted] B. Fu-la-erh-chi Heavy Machinery Plant, B.E. [redacted] and C. A Steel Plant and Probable Arsenal.

3. Steel Plant and Probable Arsenal. This plant is located immediately southwest of the city along the Men Cheang (Normi River) at 47 11N-123 38E (see CIA/PID/IB-P-780/63). Collateral intelligence indicates that construction of a large arsenal, complete with steel producing facilities was begun in 1953. This large plant contains a probable open hearth furnace building (item 12) which would be capable of producing steel or special alloy steel. This building is identical in layout as the one at the Possible Ping-li-she-chang Armament Plant (Pao-tou, China). Both buildings have three stacks and an associated gas plant which supplies fuel gas for the furnaces. Pipelines carry fuel gas to other buildings in this plant where fuel gas is required. There are four other major buildings at this plant. The large "L" shaped building consists of furnace or foundry section (item 1a) and a casting section and/or heavy machine shop (item 1b). Special alloy steel could also possibly be produced and cast here. The large multisectional building (item 40) houses reheating furnaces, rolling equipment, forges and heavy machine shop and assembly section. The other

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two buildings are machine shops/workshops (item 3 and 38). Other facilities include a foundry (item 25) and associated gas plant, numerous shops, warehouses, open storage of coal and scrap metal and a small rail yard. See the enclosure for detailed analysis. The total roof cover of the seven largest production buildings totals 1,365,425 square feet.

The fence or wall could not be traced the entire distance around the plant due to obliquity and photo quality. The plant has a well developed rail and road system. Electric power and steam are supplied from the adjacent Fu-la-erh-chi Heat and Power Plant, TETS.

From the general appearance of the area, the plant has been completed for a number of years. The buildings have an overall dirty, used look and large quantities of raw material such as coal and scrap metal are stored in the open. Two slag dumps, off the photo, typical of those at iron and steel plants indicates that iron or steel has been produced in this industrial complex. The plant currently is at least in partial operation as one stack of the probable open hearth furnace building is emitting smoke, there are numerous rail cars on plant sidings and vehicles are also present.

The four small blast furnaces, with box-like hot stoves, located nearby are typical of the small furnaces built during the "Great Leap Forward". The great difference in these furnaces is the fact that at least one is still in operation and the area around the others appears active, i.e., there is evidence of track activity and a light-toned raw material is stored adjacent to the furnaces. This raw material is lighter colored than coal, coke or iron ore and darker than limestone, thus it may be possible that some kind of alloy material is being produced. The area between the blast furnaces and the plant proper contains several small buildings, open storage of both dark and light-toned material and some construction activity. This section may also possibly be producing alloy materials.

No finished products were observed in the open; however, from the identification of the various components it can be inferred that heavy steel products are produced at this plant. This could include cast, rolled or forged steel and special alloy steel goods such as armor plate, gun barrels, tank hulls and heavy machine parts.

4. Fu-la-erh-chi Heavy Machinery Plant. Although this plant is reported to manufacture heavy machinery including blast furnaces, open hearth furnaces and heavy rolling mills it probably is capable of being converted to weapons manufacture (See enclosure CIA/PID/IB-P-780/63).

Facilities at this plant include a large steel foundry, probably with three open hearth-type furnaces, a probable foundry, probable foundry or forge, a forge and heavy machine shop, probable forge and heavy machine

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shop, nine machine shops/workshops, three woodworking shops, a motor pool and garage, a gas plant, warehouses and numerous smaller buildings.'

5. The photo analyst on this project was [redacted] who may be contacted on extension [redacted] should you have further questions concerning this project. This memorandum and enclosure complete this requirement.

Enclosures: 1 Annotated Photo Enlargement
CIA/PID/IB-P-780/63

[redacted]

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